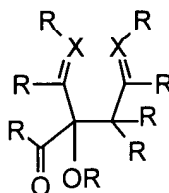
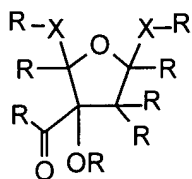
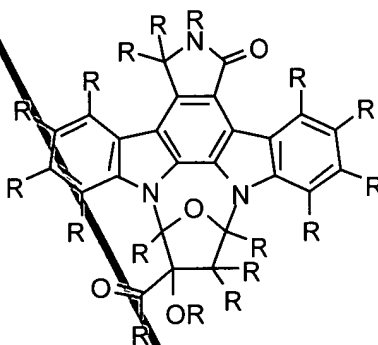


C'_{cont}



12
m

to produce a glycosylated product of the formula

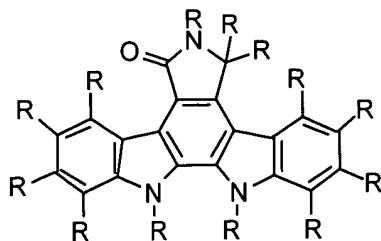


wherein R is selected from the group consisting of

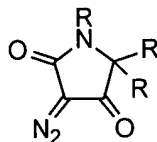
- a) a C₃₋₁₀ branched or unbranched alkyl, optionally partially or fully halogenated, hydroxy, C₁₋₃ alkyloxy, carboxy, amino, alkylamino, including Me, CH₂OH, and CO₂ Me;
- b) an aryl optionally substituted with one to five groups consisting of halo, hydroxy, C₁₋₃ alkyloxy, including Bn, DMB, and PMB;
- c) a hydrogen;
- d) a halogen; and
- e) mixtures of any of these, and
- wherein X is S and/or O.

17. A process for the preparation of furanosylated indolocarbazoles by first preparing an indolocarbazole of the formula

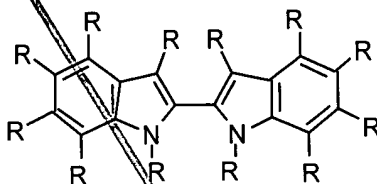
AB
C 5-



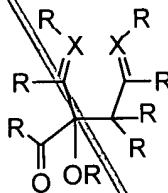
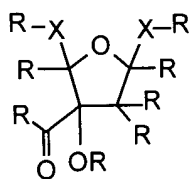
by reacting a diazo compound of the formula



with a biindole of the formula



in the presence of a transition metal catalyst in a solvent capable of solvating the reactants, and then reacting the indolocarbazole with an acetal selected from the group consisting of the formulae



and mixtures thereof, in the presence of a Bronsted acid or a Lewis acid to produce a glycosylated product of the formula